

CLAIMS

1. A method of reporting radio access capacity information from a mobile station to a mobile radio network in packet mode, wherein:

5 - the network determines, from mobile station identity information communicated to it, if it already holds radio access capacity information relating to the mobile station, and
 - if it does not already hold such information, it
 10 requests the mobile station to communicate the information to it.

2. A method according to claim 1, wherein said mobile station identity information is information for managing
 15 the uplink in packet mode.

3. A method according to claim 2, wherein said mobile station identity information is transmitted with data
 20 transmitted in the uplink direction.

4. A method according to claim 3, wherein the network requests the mobile station to communicate said radio
 25 access capacity information to it in a message acknowledging data received in the uplink direction.

5. A method according to claim 4, wherein said system is a GPRS system and said message is a PACKET UPLINK
 ACK/NACK message.

6. A method according to claim 1, wherein said mobile station identity information is transmitted with an
 30 uplink data transmission resource assignment request.

7. A method according to claim 6, wherein the network requests the mobile station to communicate said radio
 35 access capacity information to it in an uplink radio resource assignment message.

8. A method according to claim 7, wherein said system is a GPRS system and said message is a PACKET UPLINK ASSIGNMENT message.

9. A method according to claim 1, wherein said mobile station identity information has already been communicated to the network in the context of a downlink transfer of data already set up.

10. A method according to claim 9, wherein the network requests the mobile station to communicate said radio access capacity information to it in an uplink radio resource assignment message.

11. A packet mode mobile radio network entity including, for implementing a method according to claim 1:

- means for determining, from mobile station identity information that is communicated to it, if it already holds radio access capacity information relating to the mobile station, and
- means for requesting the mobile station to communicate said information to it if it does not already hold the information.

12. An entity according to claim 11, wherein said network is a GPRS network and said entity is a packet control unit (PCU).

13. A mobile station including, for implementing a method according to claim 1:

- means for receiving a request to communicate radio access capacity information, and
- means for transmitting such information to the network in response to said request.